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jc491 U.S. PTO
09/30/97

Patent Application
Docket No. 27757/00125
P-1568

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KEVIN J. BRUSKY ET AL.

For: METHOD AND METHOD FOR USING KEYBOARD MACROS TO CONTROL
VIEWING CHANNEL

BOX APPLICATION
Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

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Dear Sir:

REQUEST FOR FILING A NATIONAL PATENT APPLICATION

Transmitted herewith for filing, please find the following:

- X 1. Specification, claims and abstract of the above-referenced patent application having
27 pages.
- X 2. 3 pages of drawing(s) (Figs. 1-3) (___ formal / X informal).
- X 3. Declaration (unsigned)
- ___ 3A. No filing fee, Oath, or Declaration is enclosed pursuant to 35 U.S.C. 53(d).
- ___ 4. Power of Attorney By Assignee (___ signed ___ unsigned).
- ___ 5. Information Disclosure Statement along with Form PTO-1449 and references.

- ___ 6. This is a: ___ CIP, ___ DIV, ___ CONT, or ___ substitute Application (MPEP 201.09) of Application Serial No. ___ filed ___; or, is a ___ reissue of U.S. Patent No. ___ filed on ___.

An extension to extend the life of the above prior Application to at least the date of filing hereof

(One box must be marked)

- (a) ___ is concurrently being filed in that prior Application,
(b) ___ was previously filed in that prior Application (check length of prior extension),
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- ___ 7. Attached is an assignment to COMPAQ COMPUTER CORPORATION. Please return the recorded assignment to the undersigned. (NOTE: add recordal fee below).
- ___ 8. Priority is claimed under 35 U.S.C. § 119 based on filing in (country).

	<u>Application No.</u>	<u>Filing Date</u>
(1)	___	___
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(3)	___	___

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- ___ 9. Attached: ___ (No.) verified statement(s) establishing "small entity" status under 37 CFR § 1.9 and 1.27.

- X 10. Attached:

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- ___ 11. Preliminary Amendment:

Prior to a first Office Action, kindly amend the Application as follows:

12. The following Filing Fee calculation is based on the claims filed less any claims canceled by the Preliminary Amendment of Item 11.

					SMALL ENTITY RATE			LARGE ENTITY RATE			
BASIC FEE					\$385	OR		\$770	=	\$770.00	
	NUMBER FILED				NUMBER EXTRA						
TOTAL CLAIMS	<u>15</u>	-20	=	<u>0</u> (at least 0)	x 11	OR	x 22	=	+\$	<u>0</u>	
INDEP. CLAIMS	<u>4</u>	-3	=	<u>0</u> (at least 0)	x 40	OR	x 80	=	+\$	<u>80</u>	
If any <u>proper</u> multiple dependent claim (ignore improper) is present (Enter \$0.00 if this is a <u>reissue</u> application.)					+\$130	OR	+\$260	=	+\$	<u>0</u>	
If assignment is x'd (line 7), add recording fee \$40.00										+\$	<u> </u>
Attached is a Rule 47 Petition (inventor refuses to sign or cannot be reached) \$130										+\$	<u> </u>
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- X 13. A check in the amount of \$850.00 enclosed to cover the Filing Fees calculated in Item 12 is attached. Please charge any deficiency or credit any overpayment to Deposit Account No. 10-0447.
14. Please charge Deposit Account No. 10-0447 in the amount of \$ to cover the Filing Fee calculated in Item 12. This sheet is attached in duplicate.
- X 15. The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and may be required under 37 CFR 1.16-1.18 (missing or insufficiencies only) now or hereafter relative to this application and for the resulting Official Document under 37 CFR 1.20, OR credit any overpayment to my Deposit Account No. 10-0447, for which purpose a duplicate copy of this sheet is attached.

Patent Application
Docket No. 27757/00125
P-1568

The Commissioner is not authorized to charge the issue fee until/unless an issue fee transmittal form is filed.

Respectfully submitted,

JENKENS & GILCHRIST, P.C.

By: 

Name: Steven R. Greenfield

Reg. No. 38,166

Date: September 30, 1997

Jenkins & Gilchrist, P.C.
1445 Ross Avenue, Suite 3200
Dallas, Texas 75202
(214) 855-4789
(214) 855-4300 (fax)

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APPARATUS AND METHOD FOR USING KEYBOARD MACROS TO
CONTROL VIEWING CHANNEL

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention relates to PC/TV systems wherein tunable channels can be accessed via the use of keyboard macros. More particularly, the present invention relates to a personal computer/television system wherein the TV portion of the system can be
10 controlled by a wireless keyboard via performing alpha-numeric macro commands which designate predetermined TV viewing channels.

Description of the Related Art

15 A personal computer/television (PC/TV) convergence device is a fully functional computer emulated with the functionality of a television. The PC/TV may provide a TV mode for viewing television related information

(e.g., via broadcast, cable, satellite, VCR, digital disk, or other broadcast media). The PC/TV also provides a computer mode for computing functionality. Thus, the convergence of computer and TV

5 functionalities enables a user to have combined access to television program information, computer related functionality, and the Internet.

A PC/TV convergence device may comprise a fully functional computer which may include a memory,

10 microprocessor, hard drive, floppy disc drive, fax modem, CD-ROM player, keyboard, monitor, power supply, mouse, game pad/joy stick, microphone, etc. The computer is interfaced with a television or monitor such that the television's or monitor's normal National

15 Television Standards Committee (NTSC) signal is converted to a scan "video graphics adapter" (VGA) signal or the computer's scan VGA signal is converted to an NTSC interface signal.

The PC/TV convergence device is controlled by the

20 computer's operating system (OS). The monitor can display both TV programs and computer applications either at the same time (in separate windows) or in separate modes. Furthermore, the convergence of a PC

and a TV into a single system permits the utilization of available communication bandwidth, mass storage, and graphic capabilities to store and display applications within a television viewing environment. Basically, the computer is merged with consumer electronic functionality thereby enabling an average consumer to take advantage of many computing functions in an easy to use consumer oriented product.

The PC/TV changes a typical television from a passive device to a user interactive device. For example, while a user is watching TV, the user can request the PC/TV to download information from another source, (besides a TV station) such as the Internet, information about, among other things, the TV program. Such information can originate from a web site or from other data providers.

At present, televisions and personal computers are separate devices. A TV may incorporate a remote control. A standard TV remote control may control a variety of functions of or related to the TV. The remote control transmits infrared (IR) signals to the TV in order to indicate which button on the remote control was depressed.

Also at present, there exists IR computer keyboards. An IR keyboard allows the user to operate a computer without a wire being connected between the IR keyboard and the computer. This provides the user
5 freedom of movement.

Many viewers who view television shows and channels have difficulty knowing or remembering what channel number is associated with what network. The number of channels and networks has greatly increased
10 over the years with the addition of cable networks, direct TV, and satellite networks. Thus, the problem of remembering what channel number is associated with what network worsens.

Many cable and satellite services offer an
15 onscreen program guide. The onscreen program guide alleviates some of the problems associated with networks and channels by providing a chart for the user to view. The program guide chart provides channel numbers and associated network names along with
20 showtime information. The user can page up or down through the guide until the correct channel is on the screen. The user can then select the channel or use the remote to punch in the correct channel number to

tune to the selected channel. This task can be a cumbersome process due to today's satellite systems having hundreds of channels and each page of the program guide requiring a few seconds to load or move.

5 Alternatively, a television watcher or user can memorize a favorite list of channels and directly key the channel numbers into their televisions or remote control devices. Most users can only memorize a few channels and therefore must access some kind of TV-
10 guide if they wish to access a network that they have not memorized.

 Of course, a user can always access a user guide in the form of a hard copy from a newspaper program guide. The problem with this solution is that there
15 may be a limited availability of hardcopy program guides. Furthermore, the manual method of searching the guide to locate the desired showtime or network channel is time consuming. Still another problem with hardcopy
20 program guides is that they do not always contain the correct channel listing for a desired network when the hardcopy listing is not for the user's satellite or cable service.

Some remote controls, associated with a television, may allow a user to program favorite channels. Such remote controls allow the user to not have to depend on the user's memory, but the user must still be able to remember which remote control buttons go with the networks (i.e., pressing "FAV '1'" goes to NBC and "FAV '2'" goes to CBS, etc.). Still another drawback is that only the person who programmed the remote control knows how the "FAV" (favorite) buttons are coded. And, finally only a limited number of programmable buttons may exist on the TV remote control thereby limiting the number of channels that can be saved.

SUMMARY OF INVENTION

The present invention overcomes the above discussed drawbacks by providing a PC/TV comprising a remote keyboard having macro commands for calling up network stations, individual shows, etc. The macros can be alphanumerically typed into the keyboard as the actual known network or network abbreviation (ex.: NBC, CBC, Showtime, etc.). Software can be used to determine the channel number for each network via the

program guide provided by the satellite system or cable system.

BRIEF DESCRIPTION OF THE DRAWINGS

5 Other objects, features, and characteristics of the present invention as well as methods of operation and functions of related elements of structure, and the combination of parts and economics of manufacture, will become apparent upon consideration of the following
10 description and appended claims with reference to the accompanying drawings all of which form a part of this specification wherein like reference numerals designate corresponding parts in the various figures, and wherein:

15 FIGURE 1 is an exemplary embodiment of a convergence device in accordance with the teachings of the present invention;

 FIGURE 2 is a flow chart of an exemplary channel macro function; and

20 FIGURE 3 is a flow chart of another exemplary channel macro function.

**DETAILED DESCRIPTION OF THE PREFERRED EXEMPLARY
EMBODIMENTS**

Referring now to the drawings wherein like or
5 similar elements are designated with identical
reference numerals throughout the several views, and
wherein the various elements depicted are not
necessarily drawn to scale, and in particular, to
FIGURE 1, there is shown a block diagram of a
10 convergence device system 100 utilizing the teachings
of the present invention. This block diagram
illustrates features of the present invention and basic
principles of operation of an exemplary embodiment.
The block diagram is not necessarily intended to
15 schematically represent specific modules of hardware or
any particular data or control paths therebetween.

The convergence device system 100 includes a
computer subsystem 102, a display monitor subsystem
104, operable to receive and display thereon display
20 signals received from the computer subsystem 102.
Although not depicted, the subsystem 102 comprises a
processor unit coupled to a storage unit, and may
further preferably contain a communication port for
enabling communication between the convergence device
25 system 100 and a network 106.

The network 106, it is understood, can be any network, for example, a local area network, a telephone communication system, a metropolitan area network, a wide area network, an intranet network, or an internet network. The computer subsystem 102 can be connected to a convergence functionality module 108 that is adapted to receive and/or provide various combinations of composite RF, video, audio, graphics and/or data signals. For example, the module 108 may comprise a receiver for receiving TV signals in any form, such as National Television Standards Committee (NTSC) form or the Phase Alteration Line (PAL) form, via any medium, digital or analog, such as a cable system, a digital satellite system or a network broadcast medium.

In another embodiment, the module 108 may comprise a consumer/home electronics unit adapted to be integrated with the computer subsystem 102. For example, a video gaming unit or a video disc unit may be provided such that the outputs (video, audio, or both) of the units are controlled or modulated by the computer subsystem 102. A video controller service in the subsystem 102 may be responsible for managing these outputs such that appropriately modulated (or decoded

or processed) display signals are selected to be forwarded to drive suitable output devices, for example, the display monitor system 104 and/or audio output device (not specifically shown).

5 Although the module 108 and the subsystem 102 are shown to be two separate yet interconnected entities, the module 108 may, in some embodiments of the present invention, be integrated into subsystem 102. Such an integrated subsystem may comprise in a single housing
10 one or more video sources (or consumer/home electronics units including receivers for TV signals, gaming units, video telephoning units, etc.), a video control device or means for managing and selecting among these sources and for generating appropriate display signals to be
15 provided to suitable output devices, a processor, and data storage devices.

 The convergence device system 100 may be operable with an input device 110. The input device may comprise any of the following: a remote control, a
20 standard TV remote control, a remote track-ball/mouse device, a remote pointing device, a wireless keyboard, a wired keyboard, a keyboard integrated with a pointing device or a standard remote control device, et cetera.

Furthermore, one of ordinary skill in the art would understand that convergence device systems 100 may contain hardware modules which include, but are not limited to, power supply module, TV tuner circuitry, video imaging circuitry, microphone/audio circuitry, CD-ROM devices, scanning devices, facsimile devices, et cetera.

In an exemplary embodiment of the present invention the input device 110 is a wireless keyboard (a wired keyboard could also be used). The computer subsystem 102 and the convergence functionality module 108 equate to a PC/TV. The input device is designated to be used as a standard computer keyboard when the convergence system is operating in a computer mode. The keyboard also can operate as a TV remote control when the convergence system is operating in a TV mode.

In the present exemplary embodiment, a television can be viewed at least one of two ways. The first technique for viewing television is to place the convergence system in TV mode. The other way to view television is to open a television window (video window) while the convergence system is operating in computer mode. The present apparatus and method

provides keyboard macros that are used to access a desired network, TV network or other selectable television, video, or gaming station. The macro could be a station/network abbreviation (ex.: NBC, CBS, ABC).

5 These are called channel macros. Thus, a user could input a channel macro into the keyboard to change the channel.

In a PC/TV convergence system, there may be several tasks occurring simultaneously with the operation of the television. For example, a wordprocessor program and a spreadsheet program may be operating simultaneously with an opened television window. If a channel macro is entered, the channel macro may inadvertently be used by one of the other software programs which are not in control of channel changes.

The present invention may include the ability for at least one of a variety of techniques to enter a channel macro. One technique of entering a channel macro is to require that the PC/TV convergence system apparatus be either be in TV mode or that the video or TV window is the active window (has focus) in the foreground prior to accepting a channel macro.

Another technique for accepting a channel macro is to make use of a specialized key or function key on the keyboard. The function key can be pressed in combination with other keys to produce predetermined key codes. The convergence system (PC/TV) would be "watching" for receipt of these function key codes, filter them out from other character key codes and route the key codes to the software that handles channel/station changes. The advantage to this method is that the TV window does not have to be in the foreground window in order to change channels.

A third technique for operating a channel macro would be to run a dedicated software program in the background to assist the user when entering a channel macro. The advantage of operating dedicated software in the background is that channel changing can be performed by the user when necessary. The dedicated software could present a list of network names which match the text entered by the user. That is, as the user enters each letter of text, a list of network channels is generated to match the text. The dedicated software can anticipate the potential channels the user is going to request. The user can select a channel

from the generated list or continue typing to narrow/shorten the list.

The generated list could appear in a list box window, or on a channel banner on the screen as the
5 user is typing.

The exemplary embodiment can be linked to a program guide provided by a satellite or cable channel provider. This enables the channel macros to operate correctly in different geographical locations where
10 stations, such as NBC or CBS, are associated with different channel numbers in the different locations. In cases where two stations share the same channel at different times of the day, the information provided by the program guide becomes valuable with respect to both
15 the time and the channel that a station can be found via a channel macro.

A user may wish to associate his or her own "abbreviation" for a TV station. For example, if a user wanted to use the call letters of the local affiliate
20 of NBC instead of "NBC" for the channel macro, then the user could configure such a change.

Referring now to FIGURE 2, a flow chart is depicted to describe how exemplary keyboard macros are

used to tune to channels. The flowchart assumes that the PC/TV is on and operating in either TV mode or in computer mode wherein a TV window is open and has focus.

5 In step S200 the TV window receives a keystroke from an input device, such as a remote control or keyboard. In step S202 it is determined whether the character in the keystroke includes numeric, alphabetic or an enter key information. Other characters, such as
10 function key or specially assigned keys, etc., may be used as well. One of ordinary skill in the art would understand how this exemplary embodiment could be modified to include a variety of keystrokes and commands.

15 If the keystroke is numeric, then it is determined whether the list of network names is being displayed in step S204. If the network names list is not being displayed, then the keystroke is used as at least a portion of a channel number in step S206.

20 If, in step S204, the network names list is being displayed to the user, then the number entered is used to determine if a highlighted line in the network names list can be moved closer to a name that matches the

keystroke(s) that have been entered in step S208. If the answer in step S208 is yes, then the highlighted line is moved closer to a matching network name in step S210.

5 Going back to step S202, if the keystroke is alphabetic in step S212 (between A-Z and case insensitive), then it is determined whether the network names are being displayed to the user in step S214. If the network names list is not being displayed to the user, it will be displayed in step S216. When the network names list is displayed, then the highlighted line in the list is moved closer to a matching network name in steps S208 and S210.

15 Referring back to step S202, if the keystroke is not numeric or alphabetic and is the equivalent of an "enter" keystroke in steps S202, S212 and S218, then it is determined whether the network names list is displayed in step S220 and the PC/TV is directed to tune to the network corresponding to the currently highlighted line in the displayed list of networks in step S222. Note that the user may not have to press "enter" to make a channel selection. The user may move the mouse over a channel entry in the list of network

names and, for example, double click the mouse. The list should include all the available networks even though only a subset of them are displayed to the user at any given time. The user may scroll up and down the
5 list so that a view range of networks is displayed and thus, can be selected.

Referring now to FIGURE 3, another exemplary embodiment of how channel macros operate is depicted. This flow chart is similar to that of FIGURE 2, except
10 that there is a single "best-guess" network displayed to the user on the screen display (i.e., the channel banner) instead of bringing a special box which displays a plurality/list of several "best guess" channels.

15 In step S300 the TV window receives a keystroke from an input device. In steps S302, S304, and S306, it is determined whether the keystroke is numeric, alphabetic or an "enter" keystroke. If in step S302 the keystroke is numeric and an onscreen display is
20 present, then in step S308 the keystroke is added to the current network name. That is, the character that is typed by the user is displayed in a "network channel" area of the display. The network database is then

searched to see if the character entry(ies) exactly match one of the network names in a network database. If there is no exact match in step S308, then in step S310, the network name which most closely matches is displayed. In step S312, the network name is updated to a best new guess network.

Referring back to step S308, if the input is an exact match to the beginning characters of one network, then in step S318 it is determined whether there are other names that the current network name is a subset of. If it is not a subset of any other network names, then in step S320 it is indicated that the displayed network is the only possible network selection.

Referring back to step S304, if the keystroke was alphanumeric then it is determined whether the on-screen display is on the screen in step S314. If the on-screen display is not on the screen, then it is put on the screen in step S316. The remaining portion of steps S308, S310, S312, S318 and S320 are the same as described above.

Referring back to step S306, if the keystroke is an "enter" code and the on-screen display is up, then

the PC/TV tunes to the channel corresponding to the displayed "best guess" network name.

There are a variety of advantages associated with using embodiments of the present invention. Several aspects of channel selection are made easier to the user. The channel macros are simple to remember because they are simply the network's name. Furthermore, it is possible that the software can obtain network and channel information directly from a downloaded program guide. If an electronic program guide is not available to the user, the user can set up the network database for all the channels that the user is interested, so that channel macros can operate. Furthermore, channel macro use is instantaneous; there is no need for the user to page through a hard copy of a program guide to determine which channel number is associated with which network.

The present invention may incorporate a variety of variations. For example, a user could be able to use the present invention to add macros for other purposes besides network selection. The macros could be for specific television shows. A user could map a television program to a particular channel. The user

could then be able to type the first few characters of the program title to switch to the necessary channel. The PC/TV system could optionally notify the user if the present time is not within the proper timeslot for the scheduled program. On systems with an electronic program guide, the system software could automatically access a database containing network, channel and programming information thereby allowing the user to be able to enter "channel macros", "show macros" or "network macros."

One of ordinary skill in the art would understand that the "channel macros" could be used to switch to a predetermined web site, or to start a predetermined game or gaming device. The channel macro in effect could allow a user to switch to any kind of streaming media or any content for which there is data that resides on a hard drive or storage device. Other examples of locations where streaming media is found could be games, gaming devices, locations on the internet, electronic bulletin board services, etc. This invention is not limited to TV tuning, but is related to inputting macros in order to access data/information content.

5

WHAT IS CLAIMED IS:

- 1 ✓ 1. A computer system emulating a television
2 system comprising:
3 a computer converged with a television;
4 a monitor connected to said computer system;
5 and
6 an alphanumeric keyboard for providing
7 alphanumeric information to said computer system, said
8 computer system being capable of interpreting
9 predetermined alphanumeric key presses on said
10 alphanumeric keyboard as a channel macro for selecting
11 a predetermined network.
- 1 2. The computer system of claim 1, wherein said
2 channel macro comprises alphanumeric characters that
3 represent a network.
- 1 3. The computer system of claim 1, wherein when
2 said channel macro is implemented when said computer
3 system is in a TV mode.

1 4. The computer system of claim 1, wherein said
2 channel macro is implemented when said computer system
3 is in a computer mode and a video window is an active
4 window.

1 5. The computer system of claim 1, wherein said
2 alphanumeric keyboard provides said alphanumeric
3 information to said computer system in a wireless
4 fashion.

1 6. The computer system of claim 1, wherein said
2 channel macro provides the user a list of potential
3 networks based on the alphanumeric key presses made by
4 the user.

1 7. The computer system converged with said
2 television of claim 1, wherein said channel macro
3 provides the user a best guess of potential networks
4 based on the alphanumeric key presses made by the user.

1 8. In a PC/TV computer system having keyboard
2 for providing alphanumeric characters to said PC/TV

3 computer, a method of selecting a network station
4 comprising the steps of:
5 placing said PC/TV in one of a TV mode and a
6 Computer mode with an active video window;
7 pressing a first alphanumeric key on said
8 keyboard;
9 determining whether said first alphanumeric
10 key is a first character in at least one predetermined
11 network station name;
12 displaying said at least one network station
13 name; and
14 selecting one network station name; and
15 tuning to said network station.

1 9. The method of claim 8, further comprising a
2 step of downloading a program guide from a network
3 provider, said program guide providing information that
4 matches network stations with TV channels.

1 10. The method of claim 8, wherein said one
2 network station name being selected is highlighted.

1 11. The method of claim 8, wherein said step of
2 displaying is performed by providing an active window
3 on a screen of a viewing monitor.

1 12. The method for claim 8, wherein said step of
2 displaying is performed by providing a channel banner
3 on a screen of a viewing monitor.

1 13. In a PC/TV computer system having keyboard
2 for providing alphanumeric characters to said PC/TV
3 computer and a viewing monitor, a method of selecting
4 a channel comprising the steps of:

5 placing said PC/TV in one of a TV mode and a
6 computer mode with an active video window;

7 pressing a first alphanumeric key on said
8 keyboard;

9 determining whether said first alphanumeric
10 key is a first character in at least one predetermined
11 network station name;

12 displaying said at least one network station
13 name;

14 selecting one network station name; and

15 tuning to a channel associated with said
16 network station.

1 14. A computer system comprising:
2 a monitor connected to said computer system;
3 and
4 an alphanumeric keyboard for providing
5 alphanumeric information to said computer system, said
6 computer system being capable of interpreting
7 predetermined alphanumeric key presses on said
8 alphanumeric keyboard as a channel macro for selecting
9 a predetermined subsystem.

1 15. The computer system of claim 14, wherein said
2 subsystem comprises at least one of an internet, an
3 electronic bulletin board, and an electronic gaming
4 system.

ABSTRACT OF THE DISCLOSURE

In a converged computer and television system, the TV network viewed in a TV mode can be changed by entering an alphanumeric channel macro on the computer

5 keyboard.

00114 0900 444444

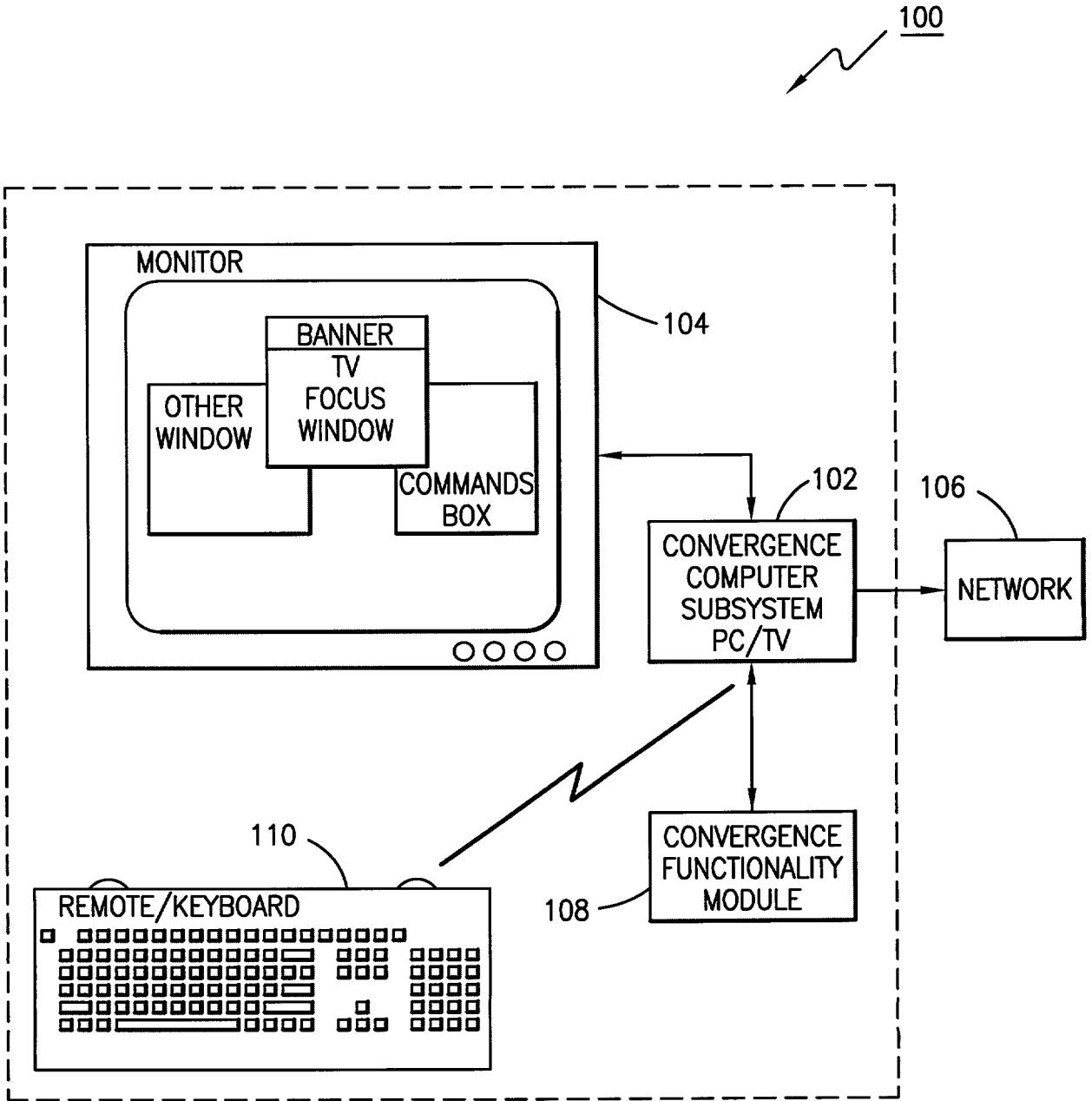


FIG. 1

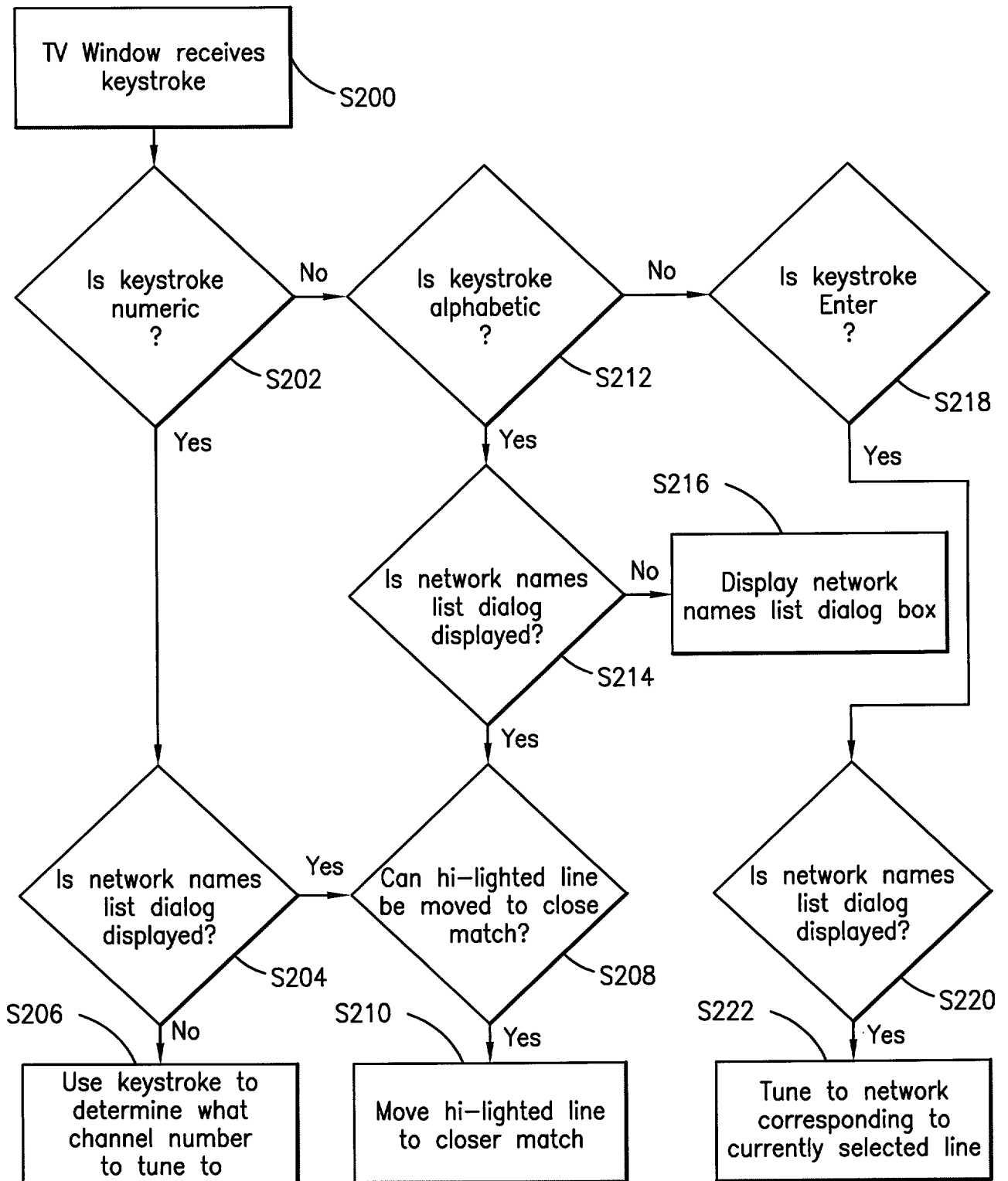


FIG. 2

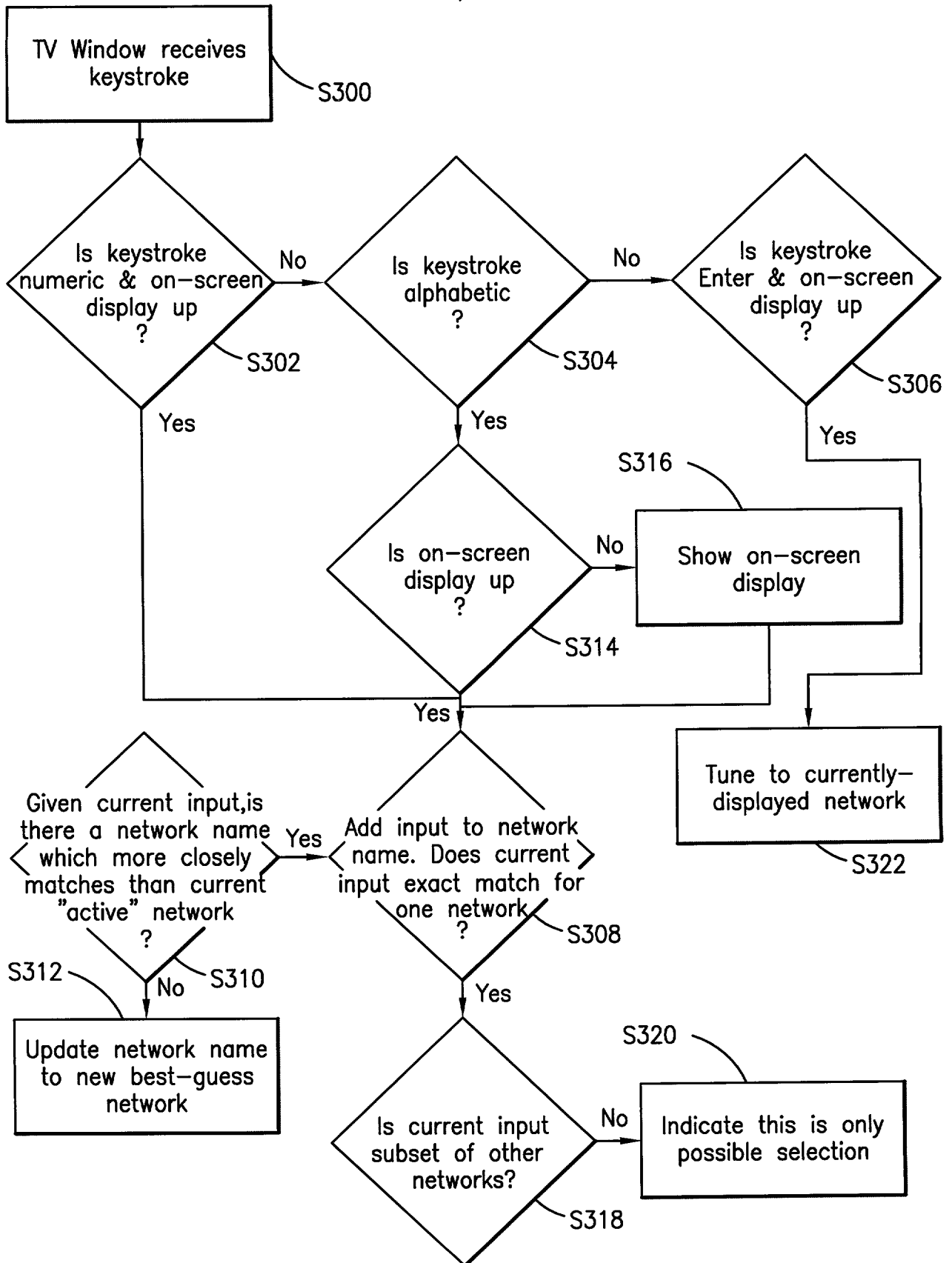


FIG. 3

DECLARATION

JOINT INVENTOR
ORIGINAL

As a below named inventor, I hereby declare that: my residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first, and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

APPARATUS AND METHOD FOR USING KEYBOARD MACROS TO CONTROL VIEWING CHANNEL

as described in the specification [☒] attached or [☐] of patent Application Serial No. _____

filed _____ and amended on _____.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above; that I do not know and do not believe the same was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application; that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representative or assigns more than twelve months prior to this application; and that I acknowledge the duty to disclose information of which I am aware which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations § 1.56(a). Such information is material when it is not cumulative to information already of record or being made of record in the application, and

- (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) it refutes, or is inconsistent with, a position the applicant has taken or may take in:
 - (i) opposing an argument of unpatentability relied on by the Office, or
 - (ii) asserting an argument of patentability.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 of any foreign application(s) for patent or inventor's certificates listed below and have also identified below any foreign application(s) having a filing date before that of the application(s) on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE OF FILING	PRIORITY CLAIMED UNDER 35 USC 119
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under Title 35 United States Code § 120 of any United States application(s) listed below and, insofar as any subject matter of any claim of this application is not disclosed in the prior United States Application, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations § 1.56(a) which occurred between the filing date of the prior application and the national PCT international filing date of this application:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR	INVENTOR'S SIGNATURE	DATE
KEVIN J. BRUSKY		
RESIDENCE		CITIZENSHIP
5407 RANCH LAKE DR., MAGNOLIA, TX. 77355		U.S.
POST OFFICE ADDRESS		
5407 RANCH LAKE DR., MAGNOLIA, TX. 77355		
FULL NAME OF SECOND INVENTOR	INVENTOR'S SIGNATURE	DATE
WILLIAM H. ELLIS		
RESIDENCE		CITIZENSHIP
71 PINE PATH PLACE, THE WOODLANDS, TX 77381		U.S.
POST OFFICE ADDRESS		
71 PINE PATH PLACE, THE WOODLANDS, TX 77381		

Attorney Docket No.: 27757-00125

FULL NAME OF THIRD INVENTOR	INVENTOR'S SIGNATURE	DATE
DERRILL L. STURGEON		
RESIDENCE		CITIZENSHIP
555 BUTTERFIELD, #920, HOUSTON, TX 77090		U.S.
POST OFFICE ADDRESS		
555 BUTTERFIELD, #920, HOUSTON, TX 77090		
FULL NAME OF FOURTH INVENTOR	INVENTOR'S SIGNATURE	DATE
KERRY L. BRUSKY		
RESIDENCE		CITIZENSHIP
5407 RANCH LAKE DR., MAGNOLIA, TX. 77355		U.S.
POST OFFICE ADDRESS		
5407 RANCH LAKE DR., MAGNOLIA, TX. 77355		

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